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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/792,194	03/03/2004	Hui-Ling Lou	MP0431	4891
26703 HARNESS DI	7590 09/13/2007 CKEY & PIERCE P.L.C.		EXAM	IINER
5445 CORPORATE DRIVE			BURD, KEVIN MICHAEL	
SUITE 200 TROY, MI 480	98		ART UNIT PAPER NUMBER	
			2611	`
			MAIL DATE	DELIVERY MODE
			09/13/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application No.	Applicant(s)			
		10/792,194	LOU ET AL.			
		Examiner	Art Unit			
		Kevin M. Burd	2611			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in the may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tin ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on <u>03 March 2004</u> .					
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims					
4)🖂	4)⊠ Claim(s) <u>1-29</u> is/are pending in the application.					
•	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)□	5) Claim(s) is/are allowed.					
6)⊠	☑ Claim(s) <u>1,2,4,5,7,14-16,18,19,21,22 and 24</u> is/are rejected.					
· —	Claim(s) <u>3,6,8-13,17,20,23 and 25-29</u> is/are ob	<u>-</u>				
8)[_]	Claim(s) are subject to restriction and/or	election requirement.				
Application Papers						
9)	The specification is objected to by the Examine	r.				
10)⊠ The drawing(s) filed on <u>03 March 2004</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
	1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachmen	• •	_				
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail Da				
3) 🛛 Infori	mation Disclosure Statement(s) (PTO/SB/08) or No(s)/Mail Date	5) Notice of Informal P				

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Drawings

1. Figures 1A, 1B and 2 should be designated by a legend such as --Prior Art--because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claims 4, 7, 21 and 24 are rejected under 35 U.S.C. 101 because the disclosed invention is inoperative and therefore lacks utility. Claims 4, 7, 21 and 24 recite a circuit for converting an analog signal into a digital signal. The digital signal comprises a series of bits representing the received analog signal. This digital signal is input to an analog demodulator. Analog demodulators receive an analog waveform and extract the information from a carrier wave. The input of the bit stream from the A/D converter into the analog demodulator will not allow the analog demodulator to operate properly. A demodulated signal will not be output from the analog demodulator when the bits are input.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 2, 5, 14-16, 18, 19 and 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Tazaki (JP 2-154534).

Regarding claims 1, 14, 16 and 18, Tazaki discloses a method of using a radio receiver shown in figure 1. The receiver receives frequency modulated (FM) band signals (page 3 of translation, actions). A digital demodulator 31 for demodulating the received signal is disclosed (page 4 of translation). An analog demodulator 21 for demodulating the received signal is disclosed (page 4 of translation). The received signal is input to both the analog demodulator 21 and the digital demodulator 31 as shown in figure 1. When synchronous signals are detected, the digital demodulator is used to demodulate the signal (page 3 of translation). When there are no synchronous signals, the analog demodulator is used to demodulate the signal (page 3).

Regarding claims 2 and 19, an RF front end is shown in figure 1.

Regarding claims 5 and 22, the analog demodulator receives an input from the RF front end (figure 1).

Regarding claim 15, the digital demodulator will output digital signals.

Allowable Subject Matter

4. Claims 3, 6, 8-13, 17, 20, 23 and 25-29 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hachisuka et al (US 5,598,430) discloses analog and digital demodulation circuitry in a FM receiver (figures 1, 6 and 7).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin M. Burd whose telephone number is (571) 272-3008. The examiner can normally be reached on Monday - Friday 9 am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C. Payne can be reached on (571) 272-3024. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kevin M. Burd 9/11/2007

KEVIN BURD PRIMARY EXAMINER